

FIG. 1A

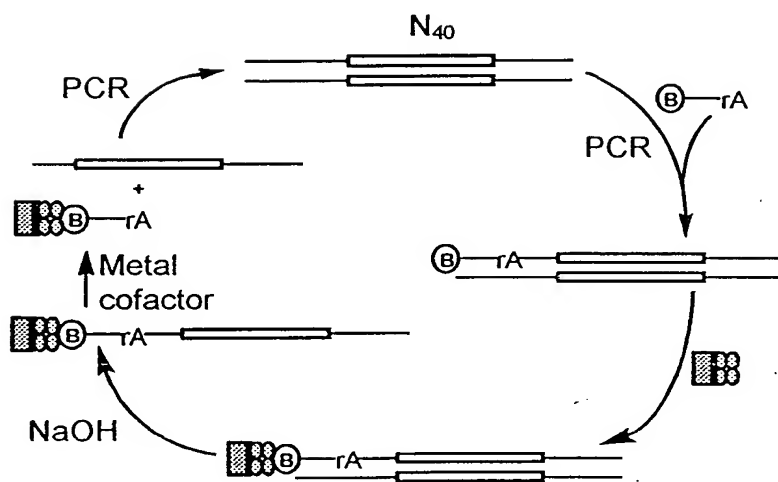


FIG. 1B

Zn-DNA

5'- CTGCAGAATTCTAATACGACTCACTATAGGAAGAGATGGCGAC

Class I (used for reselection)

#5, 6, 7, 9, 21, 25, 29, 43, 47

ATCTC TTTTGTCAGCGACTCGAAATAGTGTGTTGAAGCAGCTCTA GTGAC

Class II

#2, 10, 17, 20, 24, 31, 37, 39

AGCCA -TAGTTCTACCAGCGGTTCGAAATAGTGAAGTGTTCGTGA CTATC

#3 GGCCA -TAGTTCTACCAGCGGTTCGAAATAGTGAATGTTCGTGA CTATC

#4 GCCAGATTAGTTCTACCAGCGGTTCGAAATAGTGAATGTTCGTGA CTATC

Class III

#15, 18, 19, 34, 35, 38, 50

ATCTC CAAAGATGCCAGCATGCTATTCTCCGAGCCGGTCGAAATA GTGAC

#14 ATCTC CAAAGATGCCTGCATGCTATTCTCCGAGCCGGTCGAAATA GTGAC

Unclassified

#36 ATCTC GTCTCCGAGCCGGTCGAAATAGTCAGGTGTTTCTATTCCG GTGAC

#40 ATCAC CTTCTCCGAGCCGGTCGAAATAGTAGTTTTTAGTATATCT GTGAC

#42 ATCTC AGGTGTTGGCTGCTCTCGCGGTGGCGAGAGGTAGGGTGAT GTGAC

GGTAAGCTTGGCAC-3'

FIG. 2

Co-DNA

5'-CTGCAGAATTCTAATACGACGCACTATAGGAAGAGATGGCGAC

Class I (used for reselection)

#18, 15, 34

ATCTC TTGTATTAGCTACACTGTTAGTGGATCGGGTCTAATCTCG GTGAC
#1 GTCTC TTGTATTAGCTACACTGTTAGTGGATCGGGTCTAATCTCG GTGAC
#25 ATCTC CTGTATTAGCTACACTGTTAGTGGATCGGGTCTAATCTCG GTGAC
#16 ATCTC TTGTATTAGCTACACTGTTAGTGGGAACGTTATCAT-TCG GTGAC

Class II

#2, 4, 7, 23, 26

ATCTC TTGACCCAAGAAGGGGTGTCAATCTAATCCGT CAACCATG
#8 ATCTC TTGACCCAAGAAGGGGTGTCAATCAAATCCGT CAACCATG
#17 ATCTC TTGACCCAAGAAGGGGTGTCAATCTAATCCGTACAACCATG ACGGTAAG
#27 ATCTC TTGACCCAAGAAGGGGTGTCAATCTAATCCGT CAAGGATG CGGTAAG

Class III

#5 ATCTC AGGTGTTGGCTGCTCCCGCGGTGGCGGGAGGTAGGGTGAT GTGAC
#11 ATCTC AGGTGTTGGCATCTCCCGCGGTGGCGAGAGGTAGGGTGAT GTGAC
#6 ATCTC AGGTGTTGGCTGCTCTCGCGGTGGCGAGAGGTAGGGTCAT GTGAC

Unclassified

#21 ATCTC GCAGTCGAAGCTTCACTGTTAGTGCGGACGGGTAGACTTC GTGAC
#29 ATTTT TTCTGAATCCTCAATGTTAGTGGACCTAGTCGTAGTCGAT GTGAC
#12 ATCTC GGAGCCAGTTAGCATAATCTTCTGAATCCTCAATGTTAGT GTGAC
#10 ATCTC GGTGTTGGCTGGATAGAGCCGGTAGGCCCTATCGTAGGGT GTGAC
#1 GTCTC TTTTGTCCGCGACTCGAAATAGTGTGTTGAAGCAGCTCTA GTGAC
#28 AGCCA TAGTTCTACCAGCGGTTTCGAAATAGTGAAGTGTTCGTGACTATCG GTAA

GGTAAGCTTGGCAC-3'

FIG. 3

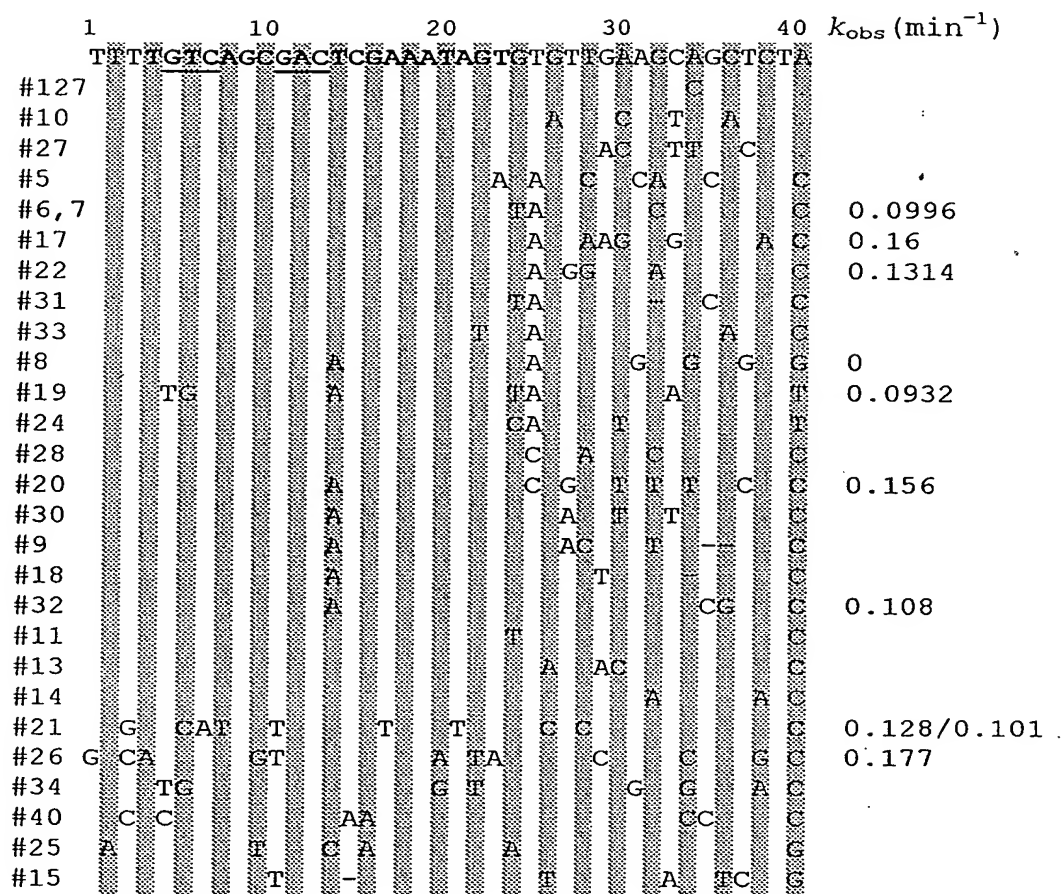


FIG. 4

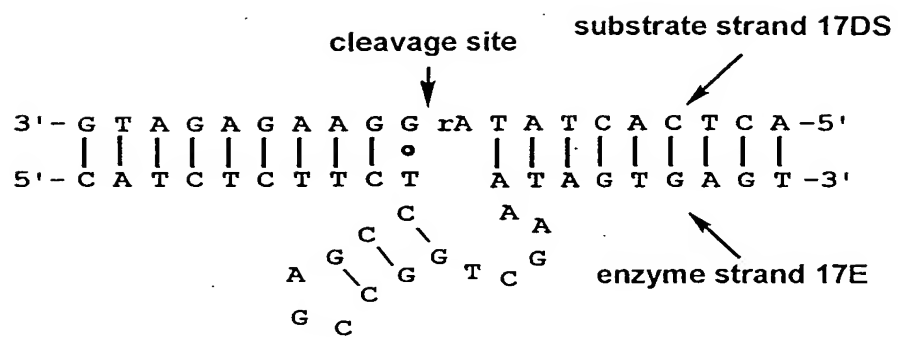


FIG. 5

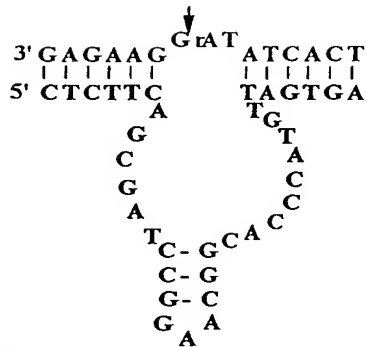


FIG. 6A

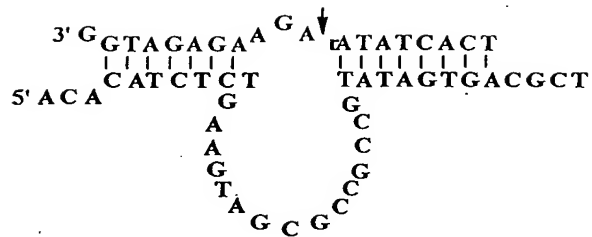


FIG. 6B

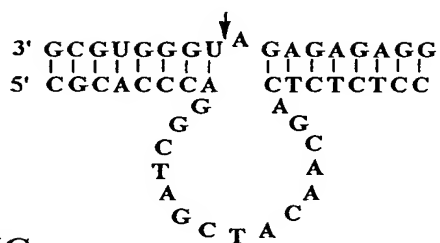


FIG. 6C

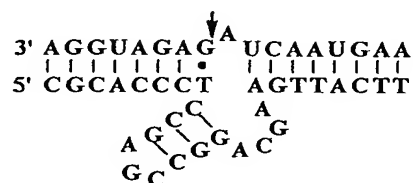


FIG. 6D

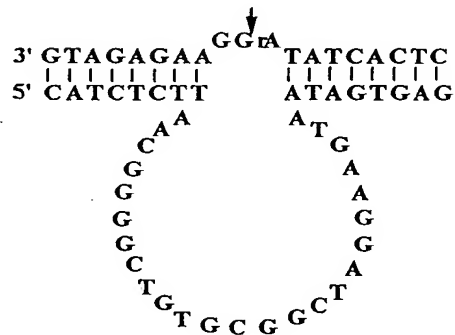


FIG. 6E

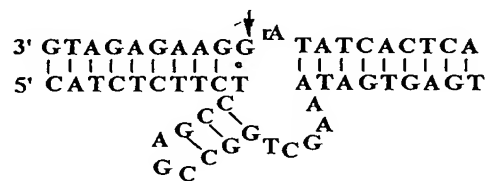


FIG. 6F

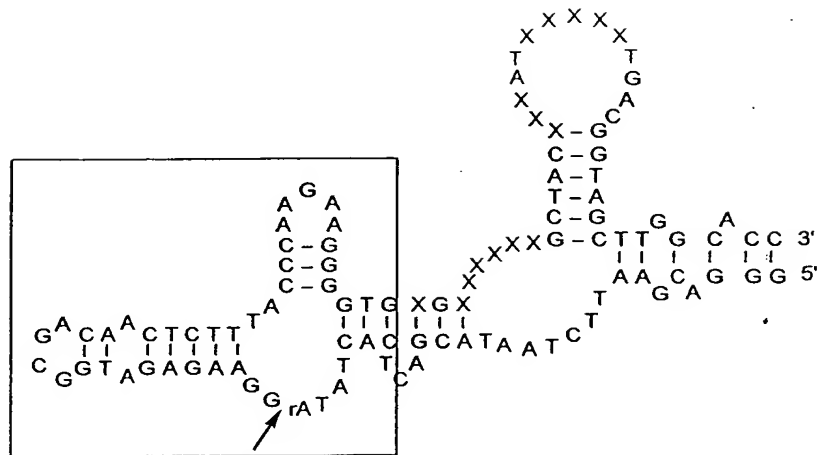


FIG. 7A

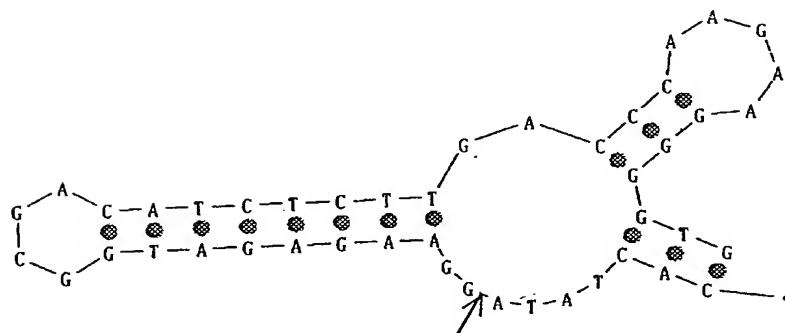


FIG. 7B

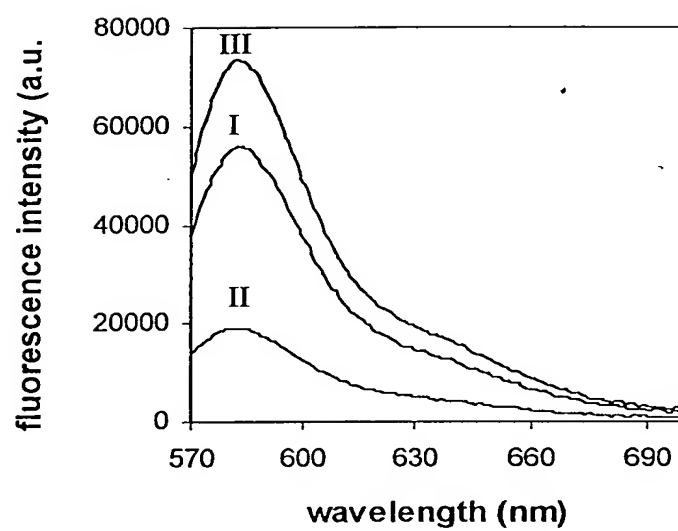
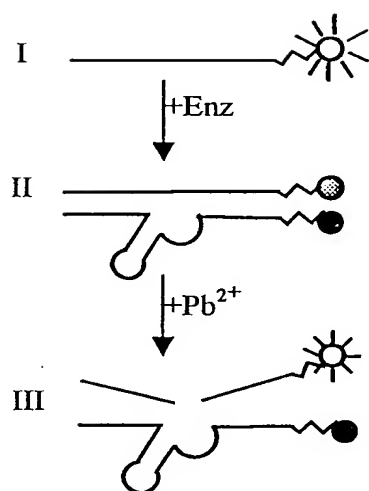


FIG. 8

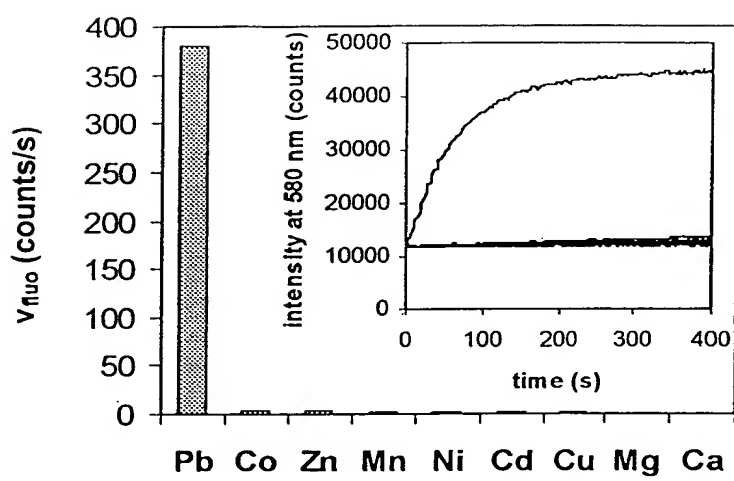


FIG. 9A

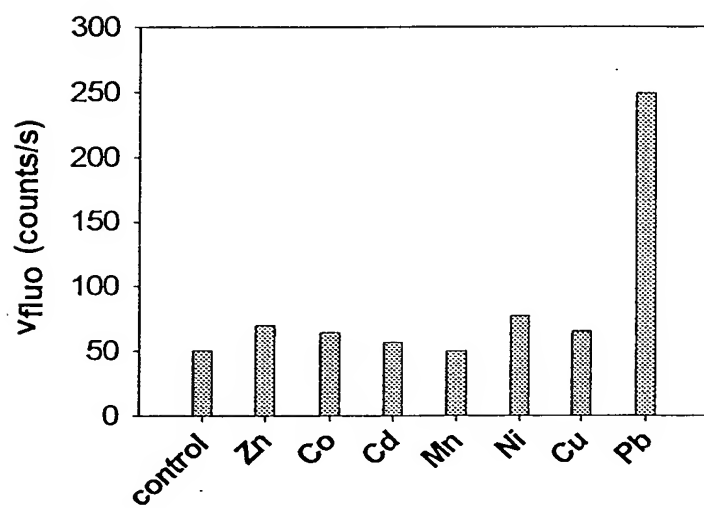


FIG. 9B

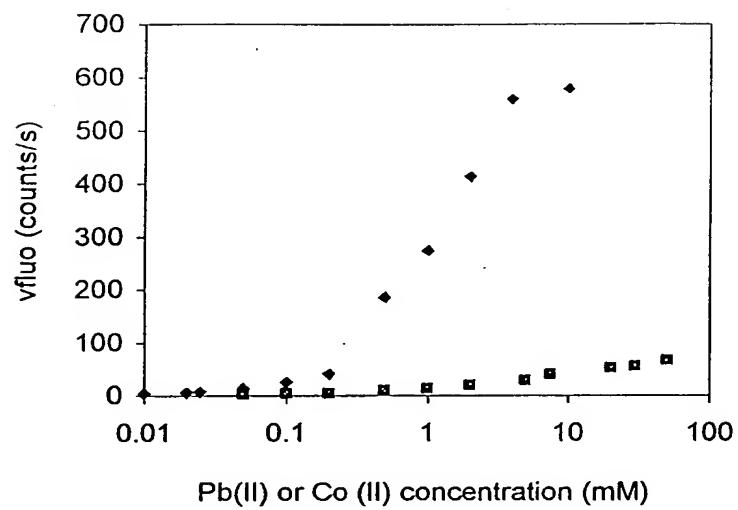


FIG. 10A

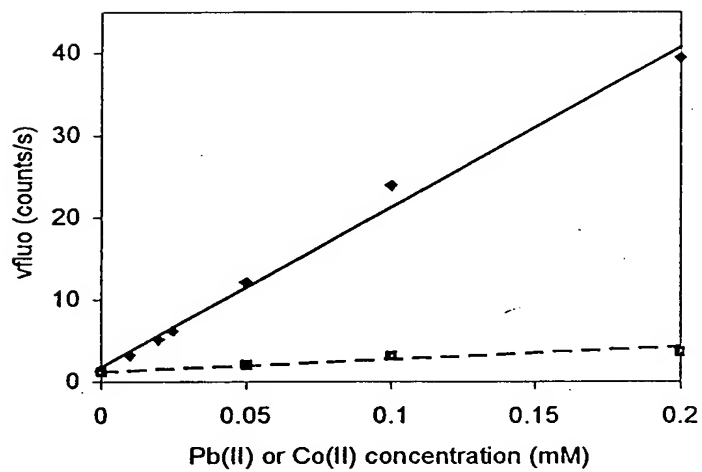


FIG. 10B

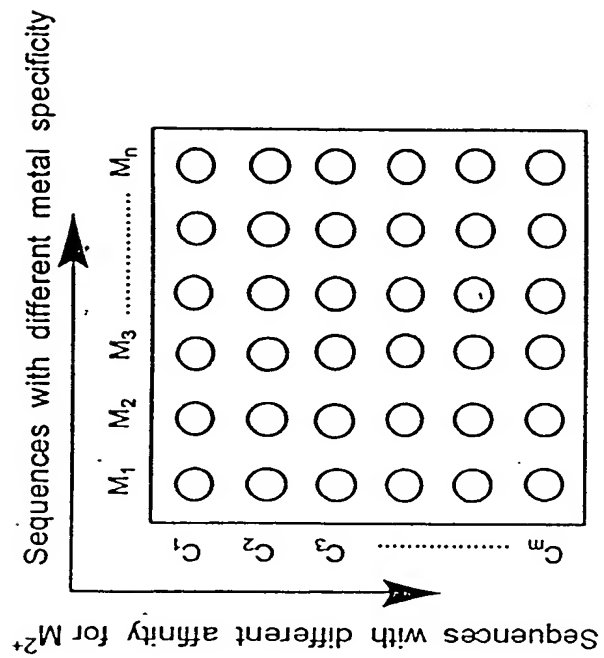


FIG. 11A

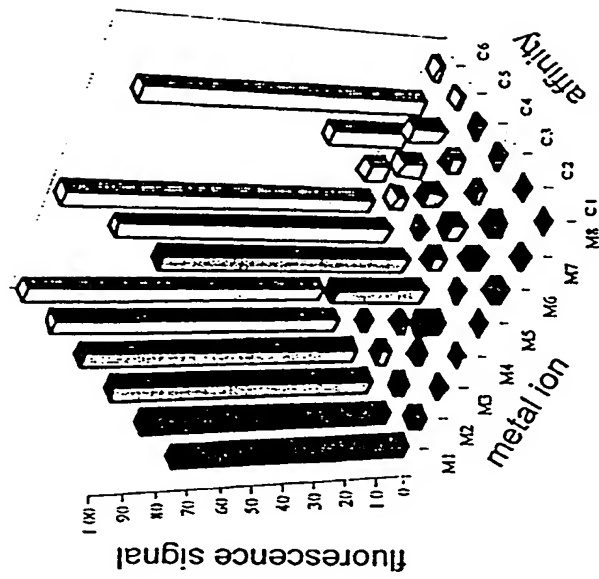


FIG. 11B

HYPOTHETICAL SAMPLE RESULT